

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

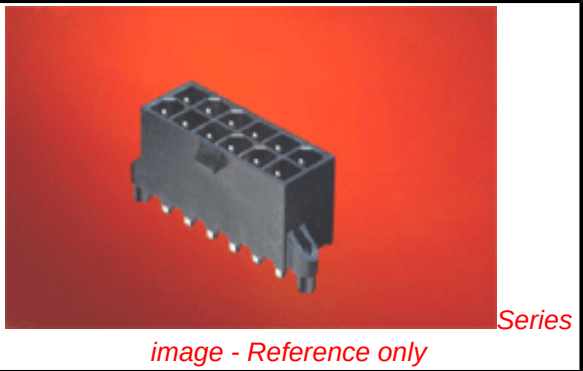
0462071012

Status:

Active

Description:

4.20mm (.165") Pitch Mini-Fit RTC™ Reflow High Temperature Compatible Header, Dual Row, Vertical, 12 Circuits, 1.57mm (.062") PCB Thickness, No PCB Pegs, LCP Housing, with Tin (Sn) Over Nickel (Ni) Plating



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	PCB Headers
Series	46207
Application	Board-to-Board, Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.
Product Name	Mini-Fit RTC™
Physical	
Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Black
Durability (mating cycles max)	75
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Nickel
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.144 In
PC Tail Length (mm)	3.66 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Polarized to Mating Part	Yes
Polarized to PCB	Yes

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

Need more information on product environmental compliance?

Email productcompliance@molex.com

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

China RoHS



Search Parts in this Series

46207Series

Mates With

5557 Mini Fit Jr.™ Receptacle

Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	30
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

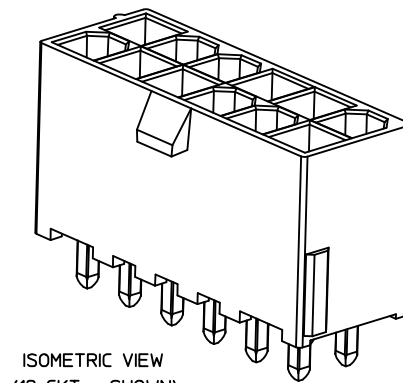
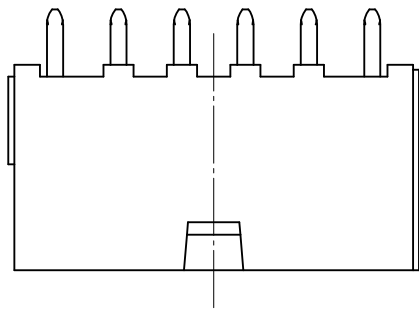
Material Info

Reference - Drawing Numbers

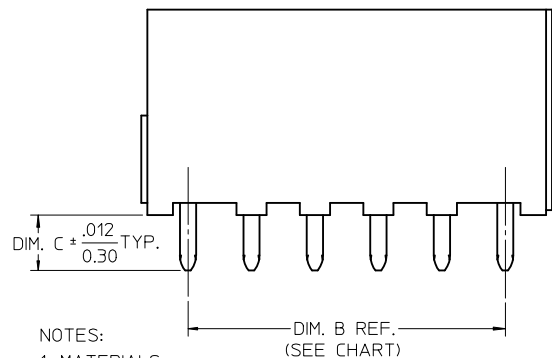
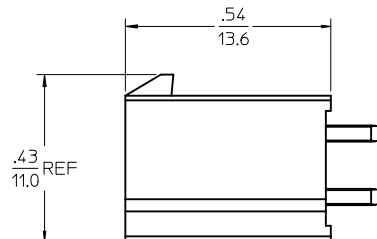
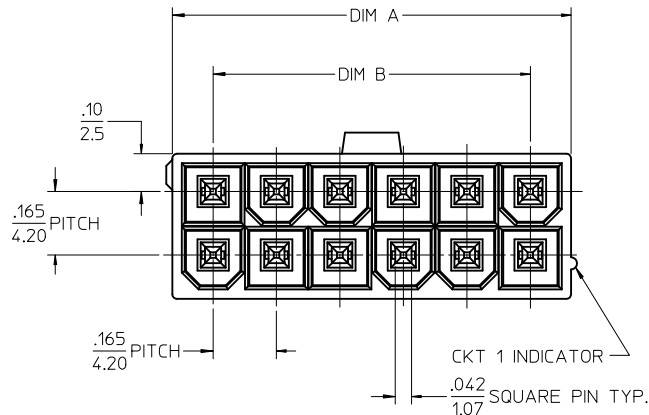
Packaging Specification	PK-46207-001
Sales Drawing	SD-46207-002

This document was generated on 05/17/2010

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ISOMETRIC VIEW
(12 CKT - SHOWN)



NOTES:

1. MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER (LCP), COLOR: BLACK
TERMINAL - BRASS

2. TERMINAL PLATING:

TIN= .000100/0.00254 MIN. MATTE TIN OVER

.000050/0.00127 MIN. NICKEL

GOLD=.000030/0.00076 MIN. SELECT GOLD OVER

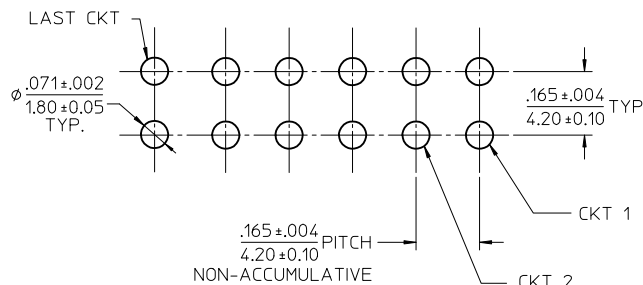
.000100/0.00254 MIN. SELECT MATTE TIN

OVER .000050/0.00127 MIN. NICKEL OVERALL.

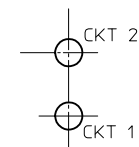
3. PRODUCT SPECIFICATION: PS-46207-001

4. PACKAGING SPECIFICATION: TRAY PACK PER: PK-46207-001
TAPE AND REEL PACK PER: PK-46207-002

5. PART CONFORMS TO CLASS 'B' REQUIREMENTS OF COSMETIC ' SPECIFICATION PS-45499-002.



LAYOUT FOR
4-24 CIRCUITS



LAYOUT FOR
2 CIRCUIT

RECOMMENDED PCB HOLE LAYOUT COMPONENT SIDE

ADD GOLD PN
EC NO: UCP2010-1779
DRWN: JAGULAR
CHKD: JBELL
APPR: FSMITH

REV
DESCRIPTION
2010/01/26
2010/02/22
2010/02/22

QUALITY SYMBOLS
GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .005
2 PLACES ± 0.13 ± .010
1 PLACE ± 0.25 ± ---
ANGULAR ± 1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM
DRAWN BY DATE
LSCHMIDT 2007/12/14
CHECKED BY DATE
JBELL 2007/12/17
APPROVED BY DATE
FSMI THROEMER 2007/12/18
MATERIAL NO.
SEE CHART
SIZE
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE
4:1
DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION
TITLE
MINI-FIT RTC HI-TEMP
VERTICAL HEADER
IN LCP, W/O PCB PEGS
MOLEX INCORPORATED
DOCUMENT NO.
SD-46207-002
SHEET NO.
1 OF 2

	13	12	11	10	9	8	7	6	5	4	3	2	1		
J	GOLD PLATING					TIN PLATING								J	
	CKT SIZE	TAPE & REEL MATERIAL NUMBER	TRAY PACK MATERIAL NUMBER	DIM. C	PCB THK.										CKT SIZE
I	02	462078002 *	462076002 *	0.144/3.66	0.062	02	462074002 *	462071002 *	0.144/3.66	0.062	H	02	462071002 *	0.176/4.46	0.093
	04	462078004 *	462076004 *	0.144/3.66	0.062	04	462074004 *	462071004 *	0.144/3.66	0.062		04	462071004 *	0.176/4.46	0.093
	06	462078006 *	462076006 *	0.144/3.66	0.062	06	462074006 *	462071006 *	0.144/3.66	0.062		06	462071006 *	0.176/4.46	0.093
	08	462078008 *	462076008 *	0.144/3.66	0.062	08	462074008 *	462071008 *	0.144/3.66	0.062		08	462071008 *	0.176/4.46	0.093
	10	462078010 *	462076010 *	0.144/3.66	0.062	10	462074010 *	462071010 *	0.144/3.66	0.062		10	462071010 *	0.176/4.46	0.093
	12	462078012 *	462076012 *	0.144/3.66	0.062	12	462074012 *	462071012 *	0.144/3.66	0.062		12	462071012 *	0.176/4.46	0.093
	14	462078014 *	462076014 *	0.144/3.66	0.062	14	462074014 *	462071014 *	0.144/3.66	0.062		14	462071014 *	0.176/4.46	0.093
	16	462078016 *	462076016 *	0.144/3.66	0.062	16	462074016 *	462071016 *	0.144/3.66	0.062		16	462071016 *	0.176/4.46	0.093
	18	462078018 *	462076018 *	0.144/3.66	0.062	18	462074018 *	462071018 *	0.144/3.66	0.062		18	462071018 *	0.176/4.46	0.093
	20	462078020 *	462076020 *	0.144/3.66	0.062	20	462074020 *	462071020 *	0.144/3.66	0.062		20	462071020 *	0.176/4.46	0.093
H	22	462078022 *	462076022 *	0.144/3.66	0.062	22	462074022 *	462071022 *	0.144/3.66	0.062	22	462071022 *	0.176/4.46	0.093	
	24	462078024 *	462076024 *	0.144/3.66	0.062	24	462074024 *	462071024 *	0.144/3.66	0.062	24	462071024 *	0.176/4.46	0.093	
	02					02		462071102 *	0.176/4.46	0.093	02		462071102 *	0.176/4.46	0.093
	04					04		462071104 *	0.176/4.46	0.093	04		462071104 *	0.176/4.46	0.093
G	06					06		462071106 *	0.176/4.46	0.093	06		462071106 *	0.176/4.46	0.093
	08					08		462071108 *	0.176/4.46	0.093	08		462071108 *	0.176/4.46	0.093
	10					10		462071110 *	0.176/4.46	0.093	10		462071110 *	0.176/4.46	0.093
	12					12		462071112 *	0.176/4.46	0.093	12		462071112 *	0.176/4.46	0.093
	14					14		462071114 *	0.176/4.46	0.093	14		462071114 *	0.176/4.46	0.093
	16					16		462071116 *	0.176/4.46	0.093	16		462071116 *	0.176/4.46	0.093
F	18					18		462071118 *	0.176/4.46	0.093	18		462071118 *	0.176/4.46	0.093
	20					20		462071120 *	0.176/4.46	0.093	20		462071120 *	0.176/4.46	0.093
	22					22		462071122 *	0.176/4.46	0.093	22		462071122 *	0.176/4.46	0.093
	24					24		462071124 *	0.176/4.46	0.093	24		462071124 *	0.176/4.46	0.093
	02					02		462071202 *	0.207/5.26	0.125	02		462071202 *	0.207/5.26	0.125
	04					04		462071204 *	0.207/5.26	0.125	04		462071204 *	0.207/5.26	0.125
E	06					06		462071206 *	0.207/5.26	0.125	06		462071206 *	0.207/5.26	0.125
	08					08		462071208 *	0.207/5.26	0.125	08		462071208 *	0.207/5.26	0.125
	10					10		462071210 *	0.207/5.26	0.125	10		462071210 *	0.207/5.26	0.125
	12					12		462071212 *	0.207/5.26	0.125	12		462071212 *	0.207/5.26	0.125
	14					14		462071214 *	0.207/5.26	0.125	14		462071214 *	0.207/5.26	0.125
	16					16		462071216 *	0.207/5.26	0.125	16		462071216 *	0.207/5.26	0.125
D	18					18		462071218 *	0.207/5.26	0.125	18		462071218 *	0.207/5.26	0.125
	20					20		462071220 *	0.207/5.26	0.125	20		462071220 *	0.207/5.26	0.125
	22					22		462071222 *	0.207/5.26	0.125	22		462071222 *	0.207/5.26	0.125
	24					24		462071224 *	0.207/5.26	0.125	24		462071224 *	0.207/5.26	0.125
	*DESIGNATES PART NOT RELEASED. CONTACT FACTORY FOR AVAILABILITY.					* DESIGNATES PART NOT RELEASED. CONTACT FACTORY FOR AVAILABILITY.								D	
C															C
B															B
A															A
SEE SHEET 1 EC NO: UCP2010-1779 DRWN: J JAGUILAR 2010/01/26 CHKD: J BELL 2010/02/22 APPR: F SMITH 2010/02/22 QUALITY SYMBOLS ▽=0 ▽=0 ▽=0 GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .010 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE IN/MM DRAWN BY DATE LSCHMIDT 2007/12/14 CHECKED BY DATE JBELL 2007/12/17 APPROVED BY DATE FSM THROEMER 2007/12/18 MATERIAL NO. SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION SCALE 1:1 TITLE MINI-FIT RTC HI-TEMP VERTICAL HEADER IN LCP, W/O PCB PEGS molex MOLEX INCORPORATED DOCUMENT NO. SD-46207-002 SHEET NO. 2 OF 2 THIRD ANGLE PROJECTION															
12	11	10	9	8	7	6	5	4	3	2	1				